

Exhibit A
Sequence Alignment

| | | | |
|-----------|-------|---|-----|
| | | 1 | 50 |
| HInchey | (1) | CCATGGTCCGTACCTTCCCCTGCCTGCACGAAATGAACCGACCTGTTGCG | |
| Muhitch | (1) | ----- | |
| Consensus | (1) | | |
| | | 51 | 100 |
| HInchey | (51) | TACAGACATTTTCGTCGAAATGGTTCTTCTTACGCTGAGCCTGTGTAAATC | |
| Muhitch | (1) | ----- | |
| Consensus | (51) | | |
| | | 101 | 150 |
| HInchey | (101) | CAGGTTCCGGGATTGAGCAGGAGTACACCCTTCTCCAGAAGGACACCAAGT | |
| Muhitch | (1) | ----- | |
| Consensus | (101) | | |
| | | 151 | 200 |
| HInchey | (151) | GGCCTCTCGGTTGGCCGCTGGGCGGCTACCCCTGGCCCTCAGGTAGATTAG | |
| Muhitch | (1) | ----- | |
| Consensus | (151) | | |
| | | 201 | 250 |
| HInchey | (201) | ATGGATCTGCGTGCCTCCAGGCTCCAGCCATATCGATGGCTTTGATCAGC | |
| Muhitch | (1) | ----- | |
| Consensus | (201) | | |
| | | 251 | 300 |
| HInchey | (251) | TGACCGAATGATCCTGGCAGGGACCTTACTACTGCGCCGTCGGAGCGGAC | |
| Muhitch | (1) | ----- | |
| Consensus | (251) | | |
| | | 301 | 350 |
| HInchey | (301) | AAGTCCTACGGGCGGGACATCGTGGACGCGCACTACAAGGCCTGCCTCTA | |
| Muhitch | (1) | ----- | |
| Consensus | (301) | | |
| | | 351 | 400 |
| HInchey | (351) | CGCCGGCATCGACATCAGTGGCATCAACGGGGAGGTCATGCCGGGGCAGG | |
| Muhitch | (1) | ----- | |
| Consensus | (351) | | |
| | | 401 | 450 |
| HInchey | (401) | TACAGCGTGCTGCTCTAGCTACCTTGTCTTTAACTGCACACTGCACTCTG | |
| Muhitch | (1) | ----- | |
| Consensus | (401) | | |
| | | 451 | 500 |
| HInchey | (451) | CACACTGCACAGCTAGTAGTATGCTGCTATCTCTGCTGACCCAGGCTTGT | |
| Muhitch | (1) | ----- | |
| Consensus | (451) | | |
| | | 501 | 550 |
| HInchey | (501) | TCGTGGACAGTGGGAGTTCCAGGTCCGGCCCTGCCGTGGCGTCTCGGCCG | |
| Muhitch | (1) | ----- | |
| Consensus | (501) | | |
| | | 551 | 600 |
| HInchey | (551) | GCGACAGCTTGGGTGGGCTCGCTACATTCTTGAGGAAAACGGTAGACCTG | |
| Muhitch | (1) | ----- | |
| Consensus | (551) | | |
| | | 601 | 650 |
| HInchey | (601) | CCCCCTGCCGGCTGTGTTTCGGTTCTTCTCCGCCGAGACATGGCGTGCTT | |
| Muhitch | (1) | ----- | |
| Consensus | (601) | | |
| | | 651 | 700 |
| HInchey | (651) | TGGCAACTTTGCCGTGTCAGTGTGTTTTGCTGATGAGACGTGTCCTTTCC | |

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|-----|---------|-----------------|
| 1 | CTMS | 1 |

Total number of pages: 1

Remarks:

Order of re-scan issued on



A DOCPHOENIX

APPL PARTS

| | |
|-----------------------|-------|
| IMIS | _____ |
| Internal Misc. Paper | _____ |
| LET | _____ |
| Misc. Incoming Letter | _____ |

371P _____
PCT Papers in a 371 Application

A... _____
Amendment Including Elections

ABST _____
Abstract

ADS _____
Application Data Sheet

AF/D _____
Affidavit or Exhibit Received

APPENDIX _____
Appendix

ARTIFACT _____
Artifact

BIB _____
Bib Data Sheet

CLM _____
Claim

COMPUTER _____
Computer Program Listing

CRFL _____
All CRF Papers for Backfile

DIST _____
Terminal Disclaimer Filed

DRW _____
Drawings

FOR _____
Foreign Reference

FRPR _____
Foreign Priority Papers

IDS _____
IDS Including 1449

NPL _____
Non-Patent Literature

OATH _____
Oath or Declaration

PET. _____
Petition

RETMAIL _____
Mail Returned by USPS

SEQLIST _____
Sequence Listing

SPEC _____
Specification

SPEC NO _____
Specification Not in English

TRNA _____
Transmittal New Application

CTNF _____
Count Non-Final

CTRS _____
Count Restriction

EXIN _____
Examiner Interview

M903 _____
DO/EO Acceptance

M905 _____
DO/EO Missing Requirement

NFDR _____
Formal Drawing Required

NOA _____
Notice of Allowance

PETDEC _____
Petition Decision

OUTGOING

| | |
|---------------------|-------|
| 18-12-01CTMS | 1 |
| Misc. Office Action | _____ |

1449 _____
Signed 1449

892 _____
892

ABN _____
Abandonment

APDEC _____
Board of Appeals Decision

APEA _____
Examiner Answer

CTAV _____
Count Advisory Action

CTEQ _____
Count Ex parte Quayle

CTFR _____
Count Final Rejection

INCOMING

AP.B _____
Appeal Brief

C.AD _____
Change of Address

N/AP _____
Notice of Appeal

PA.. _____
Change in Power of Attorney

REM _____
Applicant Remarks in Amendment

XT/ _____
Extension of Time filed separate

File Wrapper

FWCLM _____
File Wrapper Claim

IIFW _____
File Wrapper Issue Information

SRFW _____
File Wrapper Search Info

Internal

SRNT _____
Examiner Search Notes

CLMPTO _____
PTO Prepared Complete Claim Set

ECBOX _____
Evidence Copy Box Identification

WCLM _____
Claim Worksheet

WFEE _____
Fee Worksheet

6/26/03

BACKFILE DOCUMENT INDEX SHEET